
From: Richard Fetzer
To: Heston, Gerald
CC: Rupert, Richard; Chase, Kelley
Sent: 7/25/2013 10:32:00 AM
Subject: PADEP sampling parameters and Lines of Evidence. re: Franklin Forks Site.
Attachments: image001.emz; image003.emz

Jerry,

Here's some additional information we received from Bill Kosmer, PADEP Geologist. Bill is one of the primary geologists who review groundwater contamination cases which are potentially from gas wells. They presented their "lines of evidence" that they use for investigating a groundwater complaint. Although Bill was not allowed to share his entire presentation, I appreciate getting the "lines of evidence" list they use. Again, after our review of this evidence for the Franklin Forks site, we did not see any need to pursue any further EPA action.

Rich

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From: Kosmer, William, P.G. [mailto:wkosmer@pa.gov]
Sent: Thursday, July 11, 2013 9:41 AM
To: Rupert, Richard; O'Donnell, Marsha; Ayers, Geoffrey J; Rooney, Eric; Cooley, Marc B; Means, Jennifer
Cc: Richard Fetzer; Chase, Kelley; Helverson, Robert; Augustine, Kevin; Bisignani, Robert
Subject: RE: EPA Dimock data summary and conclusions

All,

Information as requested from my PowerPoint presentation:

Parameter	Method	Parameter	Method
MANGANESE T	EPA 200.7	ARSENIC T	EPA 200.8
BARIUM T	EPA 200.7	SULFATE T	EPA 375.2
IRON T	EPA 200.7	MAGNESIUM T	EPA 200.7
STRONTIUM T	EPA 200.7	ALUMINUM T	EPA 200.7
TDS @180 C	SM 2540 C	CALCIUM T	EPA 200.7
CHLORIDE	SM 4500-CL	POTASSIUM T	EPA 200.7
Hardness T	SM 2340 B	LITHIUM T	EPA 200.7
pH	SM 4500H-B	SODIUM T	EPA 200.7
SPC @ 25.0 C	SM 2510B	ZINC T	EPA 200.7
ALKALINITY	SM 2320B	TURBIDITY	PM 180.1
BROMIDE	EPA 300.0	METHANE	BOL6019
T SUSP SOLID	USGS I-3765	ETHANE	BOL6019
SELENIUM T	EPA 200.8	PROPANE	BOL6019

Some of the lines of evidence that are evaluated in a GMI case:

Predrill water quality
Postdrill water quality
Area background water quality samples
Headspace Screenings
Isotopic samples from water and gas wells
Well integrity evaluations (including E-logs)
Timelines
Local and Regional Geology
Fracture Trace analysis

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From: Rupert, Richard [<mailto:Rupert.Richard@epa.gov>]
Sent: Wednesday, July 10, 2013 8:56 AM
To: Kosmer, William, P.G.; ODonnell, Marsha; Ayers, Geoffrey J; Rooney, Eric; Cooley, Marc B; Means, Jennifer
Cc: Richard Fetzer; Chase, Kelley; Helverson, Robert; Augustine, Kevin; Bisignani, Robert
Subject: EPA Dimock data summary and conclusions

Jennifer,

First let me again thank you for taking DEP's time to brief us on the Manning situation. To me yesterday's meeting served a much larger purpose though: that being to discuss the experience with gas drilling and fracking that DEP has gained in the past years, and both EPA's and DEP's experience at Dimock. I personally gained greater understanding on several technical issues yesterday and hope the exchange of information will continue despite the many challenges both our staff's face.

In the spirit of yesterday's meeting I am forwarding to you a summary I prepared of the Dimock data. I think it mimics some of the conclusions we discussed yesterday and I would be very interested in any comments, corrections, etc. DEP folks might offer.

I hope that yesterday will not be a one off event, and more cooperation and collaboration will follow in the future.

v/r
Rich

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